

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

Claims 1-17 (Cancelled)

Claim 18 (Currently Amended): A method for releasing a slug adhering to a stamp in a punching machine comprising: -by

carrying the stamp, after performing a punching operation on a sheet material, with the active stroke at least partially through a cutting opening in a cutting plate supporting the sheet material,~~and ;~~

carrying the stamp during the return stroke back again through the cutting opening in the cutting plate which close-fittingly encloses the stamp; and

scraping a slug adhering to the stamp during the return stroke with a side of the cutting plate remote from the side supporting the sheet material such that the slug is released from the stamp, wherein the cutting opening functions during the return stroke such that the side of the cutting plate remote from the sheet material engages around the cutting opening as a scraping edge on the slug adhering to the stamp and releases it from the stamp.

Claim 19 (Previously presented): The method as claimed in claim 18, wherein the stamp is carried through the cutting opening in the cutting plate during the punching operation such that the periphery of the slug adhering to the stamp is released over only a part of the periphery from the cutting plate.

Claim 20 (Previously presented): The method as claimed in claim 18, wherein the stamp is carried through the cutting opening in the cutting plate during the punching operation such that the periphery of the slug adhering to the stamp is wholly released from the cutting plate.

Claim 21 (Previously presented): The method as claimed in claim 18, wherein the return stroke of the stamp is continued so far that the cutting opening in the cutting plate and the sheet material are left clear by the stamp.

Claim 22 (Previously presented): The method as claimed in claim 21, wherein after the sheet material has been left clear by the stamp, the processed sheet material is removed from the cutting plate.

Claim 23 (Previously presented): The method as claimed in claim 18, wherein a sheet material for processing is placed on the cutting plate before commencing the punching operation.

Claim 24 (Previously presented): The method as claimed in claim 18, wherein the slug released from the stamp is discharged.

Claim 25 (Currently Amended): A punching machine for releasing a slug adhering to a stamp, comprising:

a cutting plate provided with at least one cutting opening,

at least one stamp for linear intermittent displacement which is displaceable between a position in which the cutting opening in the cutting plate is left clear by the stamp and a position in which the stamp is carried through the cutting opening, and

wherein the stamp passes close-fittingly through the cutting opening of the cutting plate, wherein the cutting opening in the cutting plate has a scraping edge for releasing the slug adhering to the stamp, wherein the cutting plate is adapted to support a material layer for processing, and a side of the cutting plate ~~remote~~ opposite from the side supporting the material layer is substantially non-parallel relative to the side of the cutting plate supporting the material layer such that only a part of a periphery of the slug adhering to the stamp is released by the scraping edge.

Claim 26 (Previously presented): The punching machine as claimed in claim 25, wherein the free space between the stamp and the associated cutting plate in the position where the stamp is carried through the cutting opening is smaller than 0.02 mm.

Claim 27 (Currently Amended): The punching machine as claimed in claim 25, wherein the edge of the cutting opening on the side ~~remote~~ opposite from the side supporting the material layer is sharp.

Claim 28 (Cancelled)

Claim 29 (Previously presented): The punching machine as claimed in claim 25, wherein the cutting plate is supported by a punch plate with a passage for the slug connecting onto the cutting opening in the cutting plate, which passage is larger than the cutting opening.

Claim 30 (Previously presented): The punching machine as claimed in claim 29, wherein the punch plate supports a plurality of separate cutting plates.

Claim 31 (Previously presented): The punching machine as claimed in claim 29, wherein the cutting plate is connected releasably to the punch plate.

Claims 32-37 (Cancelled)

Claim 38 (Currently Amended): A method for releasing a slug adhering to a stamp in a punching machine comprising; ~~by~~

carrying the stamp, after performing a punching operation on a sheet material, with the active stroke at least partially through a cutting opening in a cutting plate supporting the sheet material, and the cutting opening having an open side, a side of the cutting plate that defines the open side of the cutting opening extending from a side of the cutting plate supporting the sheet material and tapering inwardly from the side of the cutting plate supporting the sheet material to define a chamfered groove;

displacing a slug adhering to the stamp within the chamfered groove;

carrying the stamp during the return stroke back again through the cutting opening in the cutting plate which close-fittingly encloses the stamp; and

scraping a slug adhering to the stamp during the return stroke with the cutting

~~plate, wherein the cutting opening functions during the return stroke such that the side of the cutting plate remote from the sheet material engages around the cutting opening as a scraping edge on the slug adhering to the stamp and releases it from the stamp, and~~

wherein the stamp is carried through the cutting opening in the cutting plate during the punching operation such that only a portion of the slug is released from the cutting plate ~~the periphery of the slug adhering to the stamp is released over only a part of the periphery from the cutting plate.~~

Claim 39 (New): A punching machine for releasing a slug adhering to a stamp, comprising:

a cutting plate defining a cutting opening, the cutting plate having a top surface configured to support a material layer for processing; and

at least one stamp for linear intermittent displacement which is displaceable between a position in which the cutting opening in the cutting plate is left clear by the stamp and a position in which the stamp is carried through the cutting opening, and

wherein the stamp passes close-fittingly through the cutting opening of the cutting plate, the cutting opening having an open side, a side of the cutting plate that defines the open side of the cutting opening extending from the top surface of the cutting plate and tapering inwardly from the top surface of the cutting plate to define a chamfered groove, the side of the cutting plate that defines the open side of the cutting opening forms a scraping edge for releasing a slug adhering to the stamp.